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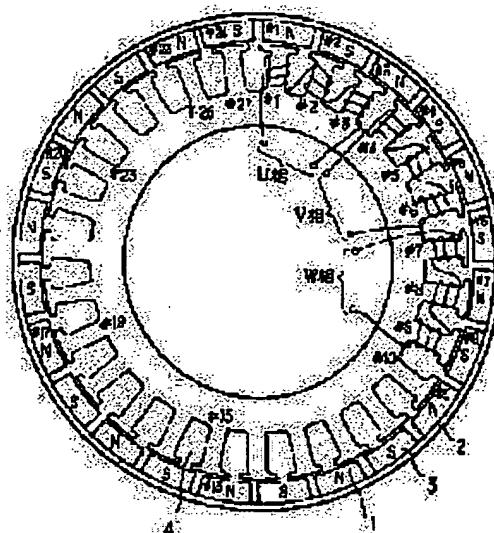
YOSHIDA TAKASHI

(54) MULTIPOLAR GENERATOR

(57)Abstract:

PROBLEM TO BE SOLVED: To reduce cogging torque and further to construct a three-phase armature winding wound on a stator and each phase of the winding can be separated to improve voltage waveform, without significantly dropping generated voltage as compared with the conventional cases, by ensuring that the number of rotor poles and the number of stator slots are in special relation to each other.

SOLUTION: A multipolar generator rotates a rotor 2 which has a plurality of permanent magnets 3 as magnetic poles and generates three-phase alternating-current voltage in armature windings in phases U, V and W which are wound on a stator 3. The multipolar generator is so constituted that the number of poles of the rotor 2 with the polarity of the poles alternately differing is 24 and furthermore the number of slots of the stator is 27. For the windings wound on the stator, the windings in phases U, V and W are sequentially wound in such a manner that the winding in each phase is continued for three slots, and each of the central ones of the windings wound in three consecutive slots is wound in the direction opposite to the direction in which both its adjacent windings are wound.



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